

## Memorandum

*Flex your power!  
Be energy efficient!*

To: GARTH FERNANDEZ,  
Project Manager

Date: May 14, 2012

From: JUERGEN VESPERMANN,  
Chief  
Hazardous Waste and Paleontology Branch

File: HSR  
Design Build  
Fresno St.

Subject: High Speed Rail, Design Build Project, Fresno St. Structures, Preliminary Hazardous Waste Information.

Please find attached the preliminary hazardous waste information for the design build High Speed Rail project on Fresno Street, in the City of Fresno. Please contact Susan Greenwood at 559-445-6466 if you require further information.

HSR  
Fresno St. Structure

The Hazardous Waste and Paleontology Branch was requested to provide preliminary hazardous waste information for the HSR Design Build Project for the Fresno St. structure in the City of Fresno.

There are two bridge structures proposed for this project. The structures will be near the Union Pacific Railroad existing structure and the other structure at the intersection of G and Fresno Streets.

The following databases were searched for this document:

- State Water Resources Control Board Geotracker Database
- California Integrated Waste Management Board
- Fresno County CUPA List
- DTSC CORTESE List
- EPA ECHO Database

Reports on the Geotracker database indicate that there is on-going remediation at 1152 G Street. Groundwater is recorded at 85 feet below surface and is contaminated with perchloroethylene (PCE) and trichloroethylene (TCE) and covers an area of several blocks. There are monitoring wells in the project location. The site is being actively remediated and overseen by the Central Valley Regional Water Quality Control Board (CVRWQCB).

1152 G St. was the site of Van Waters and Roger Inc. The Site was historically used, from 1965 to 1986, to store bulk perchloroethylene (PCE) in an aboveground storage tank at the northern section of the property. Soil and soil vapor surveys in 1996 indicated the presence of PCE. Several monitoring wells were installed in 1996 and showed PCE in the underlying groundwater. In 1998 a vapor extraction system was installed and ran until 2004. The extracted soil vapor is treated using two 2500-pound activated carbon vessels to remove the volatile organic compounds (VOCs). Through subsequent testing a series of groundwater monitoring wells have been installed and continue to be monitored quarterly.

Four new offsite soil vapor extraction (SVE) wells were installed during late 2008. An SVE system is currently extracting soil vapors from five vapor extraction wells located near the highest concentrations of PCE in groundwater and soil. This is located just downgradient of the site. Investigation to assess the lateral and vertical extent of impacts to groundwater is ongoing. A remediation action plan and Report of Waste Discharge has been submitted for insitu biodegradation of solvents in groundwater. (Geotracker database, May 2012)

The Central Region Hazardous Waste Branch did not perform a full Initial Site Assessment for this project or perform any soil or groundwater analysis. A thorough look at the hazardous waste issues for the project will be necessary.

It is anticipated that there will be dewatering activities when drilling bridge supports. A health and safety plan, a storage, transport, and disposal plan will be required for the generation of the contaminated groundwater and soil. Consultation with the Central Valley Regional Water Quality Control Board to verify existing monitoring well locations and notification of any disturbance and repair to existing monitoring wells will be required. Permits for drilling,

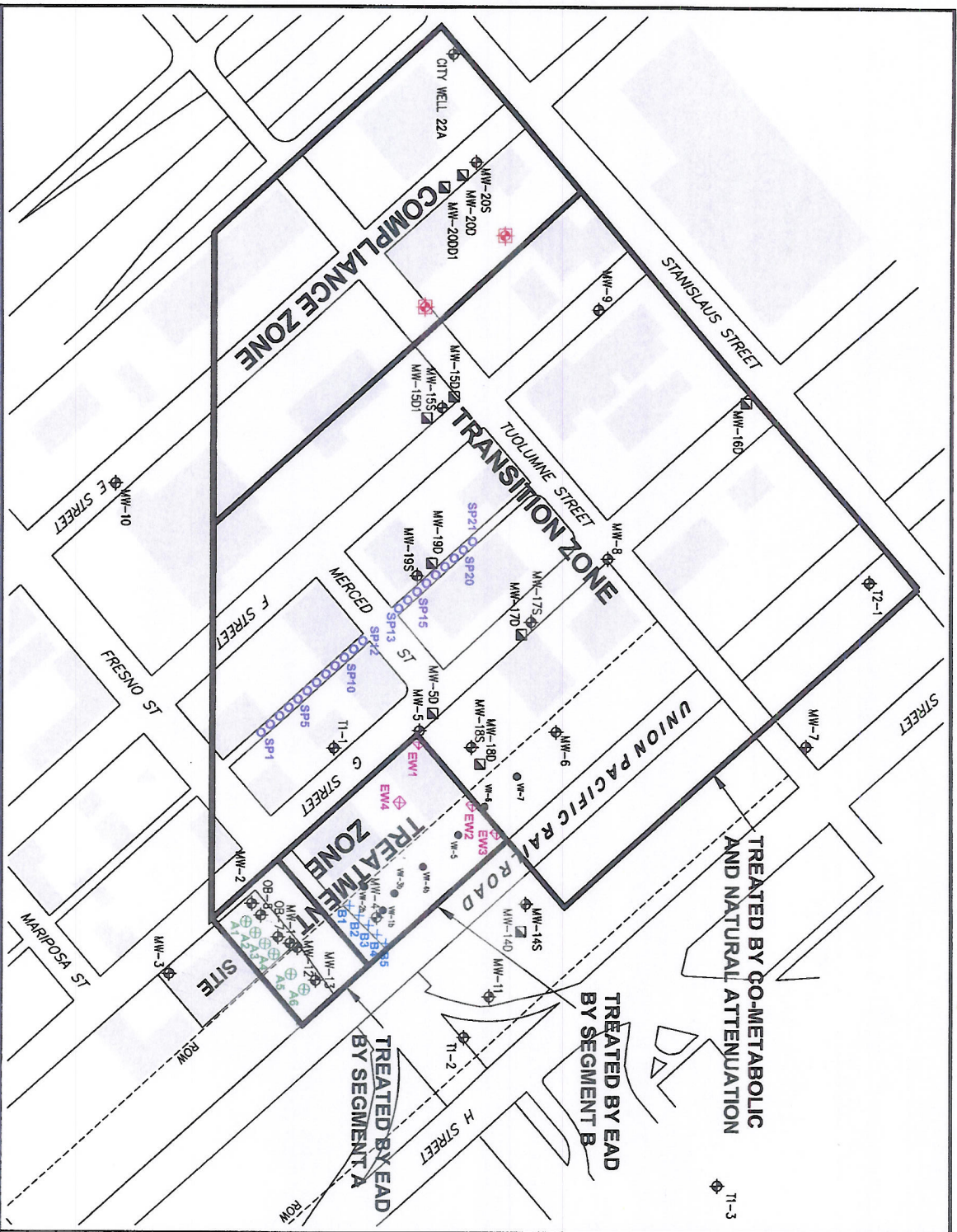
HSR

Fresno St. Structure

destroying or repairing monitoring wells will be required from Fresno County Environmental Health Department. A contractor licensed to deal with hazardous waste and materials will be required also. Soil and groundwater sampling may be necessary as well as continuous air/soil monitoring. Maps showing groundwater flow, and monitoring well locations are attached. Please note that the intersection of Fresno and G Streets as well as near the Union Pacific RR show contamination. Fresno and F Streets are not listed as having a contamination issue.

Attachments





# **LEGEND**

- ◈ MONITORING WELL
- ◈ DEEP MONITORING WELL
- ◈ VAPOR EXTRACTION WELL
- ◈ INJECTION/EXTRACTION WELL
- ◈ EXTRACTION WELL
- ◈ INJECTION WELL
- ◈ OXYGEN SPARGE WELL
- ◈ PROPOSED SENTINEL COUPLET MONITORING WELLS

N



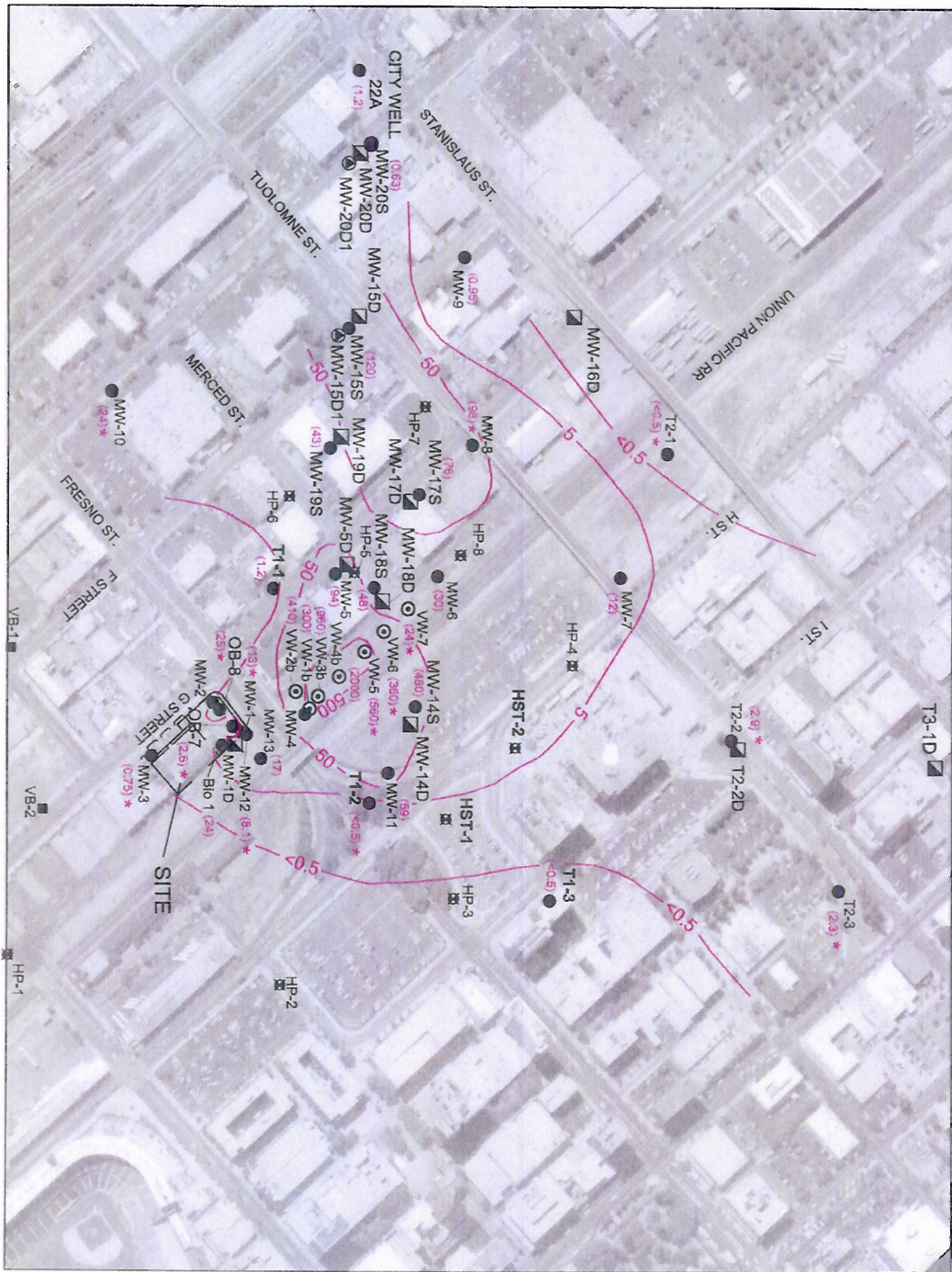
NOTE: SOURCE: 1) SITE DATA PROVIDED BY JAMES DUNHAM, SCHAUMBURG, IL, DATED 11/2002, 2) GEC AND GEC PLANS, DATED 8/2008 AND 9/2011. WELLS ARE APPROXIMATELY LOCATED

**iesi** Innovative Engineering Solutions, Inc.  
25 SPRING STREET  
WALPOLE, MASSACHUSETTS 02081  
(508) 669-0033

## **TREATMENT, TRANSITIONAL AND COMPLIANCE ZONES**

CLIENT	UNIVAR USA, INC.
SITE	1152 G STREET, FRESNO, CALIFORNIA
DATE	SEP 2011
PROJECT	5-3





**NIHON CONSULTING**  
Engineers, Chd.  
8795 Folsom Blvd. Suite 210  
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(916) 388-2865  
4003635001.dwg

**PROJECT NUMBER** 4003635001  
**APPROVED** 1/12  
**DATE** 1/12  
**REVISION DATE**

**PLATE** 4

**LEGEND**  
T2-2 SHALLOW WELL LOCATION  
T2-2D DEEP WELL LOCATION  
MW-20D1 DEEP WELL LOCATION  
HYDRO PUMP LOCATION  
VAPOR WELL LOCATION  
PCE CONCENTRATION IN ug/L  
(30) DECEMBER 2011 DATA  
(13)\*  
50 LINE OF EQUAL PCE CONCENTRATION IN ug/L





— 184.5 — LINE OF EQUAL GWE (FT. MSL)